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1 Security and privacy requirements in computing   ◼
    Rein Turn
    November 1986 **Proceedings of 1986 ACM Fall joint computer conference**
    Publisher: IEEE Computer Society Press
    Full text available: 🗎 pdf(1.07 MB)   Additional Information: full citation, references, index terms

2 Digital signatures: can they be accepted as legal signatures in EDI?   ◼
    Patrick W. Brown
    December 1993 **Proceedings of the 1st ACM conference on Computer and communications security**
    Publisher: ACM Press
    Full text available: 🗎 pdf(809.34 KB)   Additional Information: full citation, abstract, references, citings, index terms

    Digital Signature (DS) technology may be employed to produce legally enforceable
    signatures in Electronic Data Interchange (EDI) among computer users within the same
    general guidelines and requirements as those developed for handwritten signatures on
    paper. Digital signature technology promises assurance at least equal to written
    signatures. From a legal standpoint, this assurance remains to be tested in the evidentiary
    process. Business policies for organizational use of this technology ar ...

    Keywords: EDI, cryptography, digital signatures, distributed systems, law

3 A university course in computer security   ◼
    Bill Neugent
    April 1982 **ACM SIGSAC Review**, Volume 1 Issue 2
    Publisher: ACM Press
    Full text available: 🗎 pdf(867.87 KB)   Additional Information: full citation, abstract

    This article presents an overview of a graduate-level course in computer security that I
    created and presented at The American University in Washington D.C. It should be of
    interest to SIGSAC Review readers who want an overview of the subject or who are
    teaching similar courses. There are three key elements:1. Course syllabus. This includes a
    course outline. Emphasis is placed on balanced coverage of all major relevant issues
    rather than specialized coverage of a few.2. List of research assignme ...

4 The shuffle/exchange-plus networks   ◼
    Suchai Thanawastien
    April 1982 **Proceedings of the 20th annual Southeast regional conference ACM-SE 20**

Publisher: ACM Press

Full text available: pdf(394.61 KB)   Additional Information: full citation, abstract, references, citings

From the reliability point of view, the uniqueness of path between any processor and memory module in a standard k-column Shuffle/Exchange (S/E) network is an inherent weakness. It is proposed to add a column of switches to the existing multistage S/E network such that the modified network, which will be called the S/E-Plus network, will retain the permuting power of the corresponding S/E network and have dual paths between any processor and any memory module. Fault tolerant routing algorithm is ...

Keywords: fault tolerance, interconnection network, multiprocessor, shuffle/excahnge network

5 Some practical considerations in the design of local computer networks

Mark Paulk

April 1982 **Proceedings of the 20th annual Southeast regional conference ACM-SE 20**

Publisher: ACM Press

Full text available: pdf(247.09 KB)   Additional Information: full citation, abstract, references

This paper describes a network that uses standard links to connect heterogeneous types of node. The network is designed to facilitate interprocess communication among multiple processes. The ISO model is discussed, and the relationship between the network design and the standard is examined.

6 Terminal response time in data networking

Linda A. Holbrook, William Worobey

March 1985 **Proceedings of the 18th annual symposium on Simulation ANSS '85**

Publisher: IEEE Computer Society Press

Full text available: pdf(787.63 KB)   Additional Information: full citation, abstract, index terms

The application of simulation modeling in the design of data communications networks where terminal response time is a critical factor is presented. Terminal response time requirements for large interactive computer systems and cost tradeoffs related to meeting these requirements are examined. Experience with actual networks is discussed.

7 SIGMOD challenges paper: database issues in telecommunications network management

Ilsoo Ahn

May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data SIGMOD '94**, Volume 23 Issue 2

Publisher: ACM Press

Full text available: pdf(822.72 KB)   Additional Information: full citation, abstract, references, citings, index terms

Various types of computer systems are used behind the scenes in many parts of the telecommunications network to ensure its efficient and trouble-free operation. These systems are large, complex, and expensive real-time computer systems that are mission critical, and contains a database engine as a critical component. These systems share some of common database issues with conventional applications, but they also exhibit rather unique characteristics that present challenging database issues. ...

8 The slide mechanism with applications in dynamic networks

Yehuda Afek, Eli Gafni, Adi Rosén

October 1992 **Proceedings of the eleventh annual ACM symposium on Principles of distributed computing PODC '92**

Publisher: ACM Press

Full text available: pdf(1.22 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents a simple and efficient building block, called slide, for constructing

communication protocols in dynamic networks whose topology frequently changes. We employ slide to derive (1) an end-to-end communication protocol with optimal amortized message complexity, and (2) a general method to efficiently and systematically combine dynamic and static algorithms. (Dynamic algorithms are designed for dynamic networks, and static a ...

9 Connection-based communication in dynamic networks

Amir Herzberg
October 1992 **Proceedings of the eleventh annual ACM symposium on Principles of distributed computing PODC '92**
Publisher: ACM Press

Full text available: pdf(1.02 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

10 Range-free localization and its impact on large scale sensor networks

Tian He, Chengdu Huang, Brian M. Blum, John A. Stankovic, Tarek F. Abdelzaher
November 2005 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 4 Issue 4
Publisher: ACM Press

Full text available: pdf(1.37 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

With the proliferation of location dependent applications in sensor networks, location awareness becomes an essential capability of sensor nodes. Because coarse accuracy is sufficient for most sensor network applications, solutions in range-free localization are being pursued as a cost-effective alternative to more expensive range-based approaches. In this paper, we present APIT, a novel localization algorithm that is range-free. We show that our APIT scheme performs best when an irregular radio ...

Keywords: Localization, location discovery, positioning, sensor network

11 On the upper bound of α-lifetime for large sensor networks

Honghai Zhang, Jennifer C. Hou
November 2005 **ACM Transactions on Sensor Networks (TOSN)**, Volume 1 Issue 2
Publisher: ACM Press

Full text available: pdf(381.08 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In this article, we explore the fundamental limits of sensor network lifetime that all algorithms can possibly achieve. Specifically, under the assumptions that nodes are deployed as a Poisson point process with density λ in a square region with side length ℓ and each sensor can cover a unit-area disk, we first derive the necessary and sufficient condition of the node density in order to maintain complete k-coverage with probability approaching 1. With this result, we obtain th ...

Keywords: Fundamental limits, Poisson point process, coverage, k-coverage, lifetime, sensor networks

12 A quantitative approach to dynamic networks

Baruch Awerbuch, Oded Godlreich, Amir Herzberg
August 1990 **Proceedings of the ninth annual ACM symposium on Principles of distributed computing PODC '90**
Publisher: ACM Press

Full text available: pdf(1.55 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

13

Principle for high speed network control: congestion-and deadlock-freeness, self-

routing, and a single buffer per link
Yoram Ofek, Moti Yung
August 1990 **Proceedings of the ninth annual ACM symposium on Principles of distributed computing PODC '90**
Publisher: ACM Press
Full text available: pdf(1.50 MB)   Additional Information: full citation, references, citings, index terms

14   The balanced sorting network
M. Dowd, Y. Perl, M. Saks, L. Rudolph
August 1983 **Proceedings of the second annual ACM symposium on Principles of distributed computing PODC '83**
Publisher: ACM Press
Full text available: pdf(775.95 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper introduces a new sorting network, called the balanced sorting network, that sorts n items in O([lgn]2) time using (n/2)(lgn)2 comparators. Although these bounds are comparable to many existing sorting networks, the balanced sorting network possess some distinct advantages. In particular, its structure is highly regular consisting of a sequence of

15   End-to-end communication in unreliable networks
Eli Gafni, Yehuda Afek
January 1988 **Proceedings of the seventh annual ACM Symposium on Principles of distributed computing PODC '88**
Publisher: ACM Press
Full text available: pdf(1.79 MB)   Additional Information: full citation, references, citings, index terms

16   Computing on an anonymous network
Masafumi Yamashita, Tiko Kameda
January 1988 **Proceedings of the seventh annual ACM Symposium on Principles of distributed computing PODC '88**
Publisher: ACM Press
Full text available: pdf(1.53 MB)   Additional Information: full citation, references, citings, index terms

17   The power of multimedia: combining point-to point and multi-access networks
Yehuda Afek, Gad M. Landau, Baruch Schieber, Moti Yung
January 1988 **Proceedings of the seventh annual ACM Symposium on Principles of distributed computing PODC '88**
Publisher: ACM Press
Full text available: pdf(1.51 MB)   Additional Information: full citation, references, citings, index terms

18   Real-time hierarchically distributed processing network interaction simulation
Wayne F. Zimmerman, Chung-I Wu
January 1988 **Proceedings of the 21st annual symposium on Simulation ANSS '88**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.26 MB)   Additional Information: full citation, abstract, references, index terms

The Telerobot Testbed is a hierarchically distributed processing system which is linked together through a standard, commercial Ethernet. Standard Ethernet systems are primarily designed to manage non-real-time information transfer. Therefore, collisions on the net (i.e., two or more sources attempting to send data at the same time) are managed by randomly rescheduling one of the sources to retransmit at a later time interval. Although acceptable for transmitting noncritical data such as ma ...

19 <u>Designing globally consistent network schemas</u>

Sharon M. Kuck, Yehoshua Sagiv

May 1983 **ACM SIGMOD Record , Proceedings of the 1983 ACM SIGMOD international conference on Management of data SIGMOD '83**, Volume 13 Issue 4

Publisher: ACM Press

Full text available: pdf(1.15 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

In this paper we address several problems relating to functional dependencies and network schemas. We investigate properties of the functional dependencies that are implicitly defined in a network schema. A definition for the satisfaction of functional dependencies by a network database is proposed, and then we give a sufficient condition for the global consistency of a network schema. A network schema is globally consistent if all its databases satisfy the functional dependencies that are impli ...

20 <u>Research session: data warehousing and archive: An adaptive peer-to-peer network for distributed caching of OLAP results</u>

Panos Kalnis, Wee Siong Ng, Beng Chin Ooi, Dimitris Papadias, Kian-Lee Tan

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

Publisher: ACM Press

Full text available: pdf(1.37 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Peer-to-Peer (P2P) systems are becoming increasingly popular as they enable users to exchange digital information by participating in complex networks. Such systems are inexpensive, easy to use, highly scalable and do not require central administration. Despite their advantages, however, limited work has been done on employing database systems on top of P2P networks.Here we propose the PeerOLAP architecture for supporting On-Line Analytical Processing queries. A large number low-end clients, eac ...

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21 Universal multistage networks via linear permutations   ◻

Charles M. Fiduccia, Elaine M. Jacobson
August 1991 **Proceedings of the 1991 ACM/IEEE conference on Supercomputing Supercomputing '91**
Publisher: ACM Press
Full text available: ▯ pdf(942.67 KB)   Additional Information: full citation, references, index terms

22 Efficient simulation of buffer overflow probabilities in jackson networks with feedback ◻

Sandeep Juneja, Victor Nicola
October 2005 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 15 Issue 4
Publisher: ACM Press
Full text available: ▯ pdf(257.13 KB)   Additional Information: full citation, abstract, references, index terms

Consider a Jackson network that allows feedback and that has a single server at each queue. The queues in this network are classified as a single 'target' queue and the remaining 'feeder' queues. In this setting we develop the large deviations limit and an asymptotically efficient importance sampling estimator for the probability that the target queue overflows during its busy period, under some regularity conditions on the feeder queue-length distribution at the initiati ...

Keywords: Importance sampling, Jackson networks, asymptotic optimality, queueing networks, rare event simulation, variance reduction

23 Producing a Regional Network Newsletter: Challenges and Joys   ◻

Patricia McGregor
September 1989 **ACM SIGUCCS Newsletter**, Volume 19 Issue 3
Publisher: ACM Press
Full text available: ▯ pdf(920.34 KB)   Additional Information: full citation, abstract

The Merit Network News (MNN) is a free, quarterly publication of the Merit Computer Network, a regional network based in Michigan. Merit serves the user communities at the Michigan state-supported colleges and universities, as well as a large base of commercial and governmental users for these institutions.Like the computing newsletters at most schools and institutions, the MNN faces the challenge of presenting useful information to users with a wide range of knowledge and interests. In the four ...

24 On the capacity of information networks   ◻

Micah Adler, Nicholas J. A. Harvey, Kamal Jain, Robert Kleinberg, April Rasala Lehman

January 2006 **Proceedings of the seventeenth annual ACM-SIAM symposium on Discrete algorithm SODA '06**
Publisher: ACM Press
Full text available: pdf(289.02 KB)   Additional Information: full citation, abstract, references

We consider information networks in the absence of interference and noise, and present an upper bound on the rate at which information can be transmitted using network coding. Our upper bound is based on combining properties of entropy with a strong information inequality derived from the structure of the network.The **undirected** *k*-**pairs conjecture** states that the information capacity of an undirected network supporting k point-to-point connections is achievable by multicommod ...

25 Editorial zone: Network coding: an instant primer
Christina Fragouli, Jean-Yves Le Boudec, Jörg Widmer
January 2006 **ACM SIGCOMM Computer Communication Review**, Volume 36 Issue 1
Publisher: ACM Press
Full text available: pdf(145.10 KB)   Additional Information: full citation, abstract, references, index terms

Network coding is a new research area that may have interesting applications in practical networking systems. With network coding, intermediate nodes may send out packets that are linear combinations of previously received information. There are two main benefits of this approach: potential throughput improvements and a high degree of robustness. Robustness translates into loss resilience and facilitates the design of simple distributed algorithms that perform well, even if decisions are based o ...

Keywords: network coding

26 Management of mobile ad hoc networks: information model and probe-based architecture
Remi Badonnel, Radu State, Olivier Festor
September 2005 **International Journal of Network Management**, Volume 15 Issue 5
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(601.65 KB)   Additional Information: full citation, abstract, references, index terms

The increasing need for mobility in networks and computing leads to the deployment of wireless networks without fixed infrastructure, called ad hoc networks. These networks raise new challenges towards monitoring and managing them to provide optimal performance. We propose in this paper a management framework to assess the operational state and the behaviour of mobile ad hoc networks. After presenting the management requirements, we define an information model to manage these networks. Simulatio ...

27 Toward best maintenance practices in communications network management
Faouzi Kamoun
September 2005 **International Journal of Network Management**, Volume 15 Issue 5
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(132.43 KB)   Additional Information: full citation, abstract, references, index terms

Best maintenance practices in communications networks management are benchmarking standards that, if carefully implemented, will enhance the integrity, reliability and maintenance costs of communications networks. This paper defines best maintenance practices in communications network management within a concise framework encompassing measurable performance-level goals as well as methods and procedures needed to achieve these goals. The best maintenance practice recommendations of this paper cov ...

28 Sensor network software update management: a survey
Chih-Chieh Han, Ram Kumar, Roy Shea, Mani Srivastava
July 2005 **International Journal of Network Management**, Volume 15 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(158.17 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Software management is a critical task in the system administration of enterprise-scale networks. Enterprise-scale networks that have traditionally comprised of large clusters of workstations are expanding to include low-power ad hoc wireless sensor networks (WSN). The existing tools for software updates in workstations cannot be used with the severely resource-constrained sensor nodes. In this article, we survey the software update techniques in WSNs. We base our discussion around a conceptual ...

29 <u>Configuring and managing a large-scale monitoring network: solving real world challenges for ultra-low-powered and long-range wireless mesh networks</u>

Christophe Dugas

July 2005 **International Journal of Network Management**, Volume 15 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(287.88 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In creating wireless networking solutions suitable for deployment in harsh, unpredictable and widespread environments, we were confronted with a series of problems as yet unsolved by commercially available technologies. The purpose of this article is to describe how we addressed mission-critical customer requirements by developing a wireless technology explicitly for devices in ultra-low-power (ULP) and long-range wireless mesh networks. The key end-points in our target implementation are batter ...

30 <u>A simulation-based study of wireless sensor network middleware</u>

Matthew Wolenetz, Rajnish Kumar, Junsuk Shin, Umakishore Ramachandran

July 2005 **International Journal of Network Management**, Volume 15 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(332.35 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Future wireless sensor networks (WSNs) will transport high-bandwidth, low-latency streaming data, and will host sophisticated processing, such as image fusion and object tracking, in-network on sensor network nodes. Recent middleware proposals provide capabilities for in-network processing, reducing energy drain based on communication costs alone. However, hosting complex processing on WSN nodes incurs additional processing energy and latency costs that impact network lifetime and application pe ...

31 <u>Management and configuration issues for sensor networks</u>

Pedro José Marrón, Andreas Lachenmann, Daniel Minder, Matthias Gauger, Olga Saukh, Kurt Rothermel

July 2005 **International Journal of Network Management**, Volume 15 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(225.40 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In this paper, we define three of the key issues that need to be solved in order to provide efficient management and configuration of applications and system software in sensor networks: the distribution and management of roles within the network, efficient code distribution algorithms, and efficient on-the-fly code update algorithms for sensor networks. The first issue is motivated by the increasing heterogeneity of sensor network applications and their need for more complex (nonhomogeneous) ne ...

32 <u>Towards a debugging system for sensor networks</u>

Nithya Ramanathan, Eddie Kohler, Deborah Estrin

July 2005 **International Journal of Network Management**, Volume 15 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(173.84 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Due to their resource constraints and tight physical coupling, sensor networks afford limited visibility into an application's behavior. As a result it is often difficult to debug issues that arise during development and deployment. Existing techniques for fault

management focus on fault tolerance or detection; before we can detect anomalous behavior in sensor networks, we need first to identify what simple metrics can be used to infer system health and correct behavior. We propose metrics and e ...

33 A neighbor connected processor network for performing relational algebra operations

Kjell Bratbergsengen, Rune Larsen, Oddvar Risnes, Terje Aandalen
March 1980 **ACM SIGIR Forum , Proceedings of the fifth workshop on Computer architecture for non-numeric processing CAW '80**, Volume 15 Issue 2
Publisher: ACM Press

Full text available: pdf(697.48 KB)   Additional Information: full citation, abstract, references, citings, index terms

In a data base computer consisting of cells with processing capability, the desired goal is to achieve an execution time - for each data base operation - to be inversely proportional to the number of cells. Using rings as a basic building block, we have constructed different intercell communication networks. The capacity of the communication network have been analyzed under the workload of relational algebra operations. A k-dimensional network of intersecting rings, each of 2 or 3 cells hav ...

34 Visualization of network structures

Aaron Kershenbaum, Keitha Murray
December 2005 **Journal of Computing Sciences in Colleges**, Volume 21 Issue 2
Publisher: Consortium for Computing Sciences in Colleges
Full text available: pdf(1.87 MB)   Additional Information: full citation, abstract, references, index terms

Visualization of large networks, especially with annotations describing node and edge properties, is a challenging task. The challenge is heightened when it is necessary for the user to have both global and local views of the network. While there is no general solution to this problem, it can be successfully approached in several ways. By taking advantage of hierarchical structure that exists in the network and by judiciously using color and symbols to explicitly represent node and edge properti ...

35 A Taxonomy of free Network Sniffers for teaching and research

Victor A. Clincy, Nael Abu-Halaweh
October 2005 **Journal of Computing Sciences in Colleges**, Volume 21 Issue 1
Publisher: Consortium for Computing Sciences in Colleges
Full text available: pdf(678.89 KB)   Additional Information: full citation, abstract, references, index terms

Today's networking environment has become very complex. Networks have been growing in size rapidly and have come to support more complex applications. As result, troubleshooting and maintaining networks has become cumbersome and has created the need for new specialized tools such as Network Protocol Analyzers, better known as "Network Sniffers".Network Sniffers have become critical tools in today's networking management and troubleshooting processes. They enable network managers to evaluate and ...

36 Constructing and Analyzing a Large-Scale Gene-to-Gene Regulatory Network-Lasso-Constrained Inference and Biological Validation

Mika Gustafsson, Michael Hornquist, Anna Lombardi
July 2005 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 2 Issue 3
Publisher: IEEE Computer Society Press
Full text available: pdf(499.30 KB)   Additional Information: full citation, abstract, index terms

We construct a gene-to-gene regulatory network from time-series data of expression levels for the whole genome of the yeast Saccharomyces cerevisae, in a case where the number of measurements is much smaller than the number of genes in the network. This network is analyzed with respect to present biological knowledge of all genes (according to the Gene Ontology database), and we find some of its large-scale properties to be in accordance with known facts about the organism. The linear modeling e ...

Keywords: Index Terms- Biology and genetics, time series analysis, network problems, gene network, network inference, Lasso, yeast, validation, outdegree.

37 The Applicability of Recurrent Neural Networks for Biological Sequence Analysis

John Hawkins, Mikael Boden
July 2005 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 2 Issue 3
Publisher: IEEE Computer Society Press
Full text available: pdf(1.52 MB)   Additional Information: full citation, abstract, index terms

Selection of machine learning techniques requires a certain sensitivity to the requirements of the problem. In particular, the problem can be made more tractable by deliberately using algorithms that are biased toward solutions of the requisite kind. In this paper, we argue that recurrent neural networks have a natural bias toward a problem domain of which biological sequence analysis tasks are a subset. We use experiments with synthetic data to illustrate this bias. We then demonstrate that thi ...

Keywords: Index Terms- Machine learning, neural network architecture, recurrent neural network, bias, biological sequence analysis, motif, subcellular localization, pattern recognition, classifier design.

38 Discovering Gene Networks with a Neural-Genetic Hybrid

Edward Keedwell, Ajit Narayanan
July 2005 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 2 Issue 3
Publisher: IEEE Computer Society Press
Full text available: pdf(1.59 MB)   Additional Information: full citation, abstract, index terms

Recent advances in biology (namely, DNA arrays) allow an unprecedented view of the biochemical mechanisms contained within a cell. However, this technology raises new challenges for computer scientists and biologists alike, as the data created by these arrays is often highly complex. One of the challenges is the elucidation of the regulatory connections and interactions between genes, proteins and other gene products. In this paper, a novel method is described for determining gene interactions i ...

Keywords: Index Terms- Gene expression analysis, neural networks, genetic algorithms, reverse-engineering, gene interactions.

39 Dynamic delay-constrained minimum-energy dissemination in wireless sensor networks

Hyung Seok Kim, Tarek F. Abdelzaher, Wook Hyun Kwon
August 2005 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 4 Issue 3
Publisher: ACM Press
Full text available: pdf(1.13 MB)   Additional Information: full citation, abstract, references, index terms

Disseminating data generated by sensors to users is one of useful functions of sensor networks. In probable real-time applications of sensor networks, multiple mobile users should receive data within their end-to-end delay constraint. In this paper, we propose a dynamic DElay-constrained minimum-Energy Dissemination (DEED) scheme. A dissemination tree (d-tree) is updated in a distributed way without regenerating the tree from scratch, such that energy consumption of the tree is minimized while s ...

Keywords: Sensor network, energy, multicast

40 Optimal methods for coordinated enroute web caching for tree networks

Keqiu Li, Hong Shen, Francis Y. L. Chin, Si Qing Zheng

August 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 3
Publisher: ACM Press

Full text available: pdf(343.64 KB)   Additional Information: full citation, abstract, references, citings, index terms

Web caching is an important technology for improving the scalability of Web services. One of the key problems in coordinated enroute Web caching is to compute the locations for storing copies of an object among the enroute caches so that some specified objectives are achieved. In this article, we address this problem for tree networks, and formulate it as a maximization problem. We consider this problem for both unconstrained and constrained cases. The constrained case includes constraints on th ...

Keywords: Web caching, autonomous system (AS), dynamic programming, object placement (replacement), performance evaluation, tree network

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41 Programming ad-hoc networks of mobile and resource-constrained devices   ▭

Yang Ni, Ulrich Kremer, Adrian Stere, Liviu Iftode
June 2005 **ACM SIGPLAN Notices , Proceedings of the 2005 ACM SIGPLAN conference
on Programming language design and implementation PLDI '05**, Volume 40
Issue 6
Publisher: ACM Press

Full text available: 🄿 pdf(391.82 KB)   Additional Information: full citation, abstract, references, citings, index
terms

Ad-hoc networks of mobile devices such as smart phones and PDAs represent a new and
exciting distributed system architecture. Building distributed applications on such an
architecture poses new design challenges in programming models, languages, compilers,
and runtime systems. This paper discusses SpatialViews, a high-level language designed
for programming mobile devices connected through a wireless ad-hoc network.
SpatialViews allows specification of virtual networks with nodes providing desir ...

Keywords: MANET, ad-hoc networks, location-awareness, quality of result, service
discovery

42 Shangri-La: achieving high performance from compiled network applications while   ▭
enabling ease of programming

Michael K. Chen, Xiao Feng Li, Ruiqi Lian, Jason H. Lin, Lixia Liu, Tao Liu, Roy Ju
June 2005 **ACM SIGPLAN Notices , Proceedings of the 2005 ACM SIGPLAN conference
on Programming language design and implementation PLDI '05**, Volume 40
Issue 6
Publisher: ACM Press

Full text available: 🄿 pdf(480.93 KB)   Additional Information: full citation, abstract, references, citings, index
terms

Programming network processors is challenging. To sustain high line rates, network
processors have extremely tight memory access and instruction budgets. Achieving
desired performance has traditionally required hand-coded assembly. Researchers have
recently proposed high-level programming languages for packet processing, but the
challenges of compiling these languages into code that is competitive with hand-tuned
assembly remain unanswered.This paper describes the Shangri-La compiler, which acce ...

Keywords: chip multiprocessors, dataflow programming, network processors, packet
processing, program partitioning, throughput-oriented computing

43 Trust, recommendations, evidence, and other collaboration know-how (TRECK):   ▭

Simulation of a distributed recommendation system for pervasive networks
Seamus Moloney
March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**
Publisher: ACM Press
Full text available: pdf(119.78 KB)   Additional Information: full citation, abstract, references, index terms

New networks based on short-range radio are emerging where mobile devices interact in a spontaneous and short-lived fashion. Such pervasive networks involve devices approaching and finding each other, interacting to exchange some information or use some shared service, before disconnecting and leaving radio range. As such, they involve lots of potentially risky interactions with strangers. Due to the lack of any infrastructure in these networks, using a distributed recommendation system to impro ...

Keywords: distributed recommendation systems, small-world modeling

44 Reliable computations and their applications (RCA): Enhancing network intrusion detection systems with interval methods
Qiang Duan, Chenyi Hu, Han-Chieh Wei
March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**
Publisher: ACM Press
Full text available: pdf(139.51 KB)   Additional Information: full citation, abstract, references, index terms

Two main approaches for network intrusion detection are *misuse detection* [6] and *anomaly detection* [11]. The limitation of the misuse approach is that cannot effectively detect new patterns of intrusions that are not precisely encoded in the system [11]. The anomaly detection approach usually produces a large number of false alarms [1, 7]. In addition, anomaly detection requires intensive computations on a large amount of training data to characterize normal behavior patterns.In th ...

Keywords: interval method, intrusion detection, network control

45 Mobile computing and applications (MCA): Probabilistic multi-path vs. deterministic single-path protocols for dynamic ad-hoc network scenarios
Christopher L. Barrett, Stephan J. Eidenbenz, Lukas Kroc, Madhav V. Marathe, James P. Smith
March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**
Publisher: ACM Press
Full text available: pdf(240.57 KB)   Additional Information: full citation, abstract, references, index terms

We investigate the performance of different protocol stacks under various application scenarios. Our method of choice is a full-fledged simulation in QualNet, testing the complete protocol stack over fairly large-scale networks. We find that the relative ranking of protocols strongly depends on the network scenario, the session load, the mobility level, and the choice of protocol parameters. We show that the Parametric Probabilistic Protocols, which we generalize from their original definition, ...

Keywords: mobility, probabilistic routing, scenarios, wireless networks

46 Mobile computing and applications (MCA): Reflective middleware for wireless sensor networks
Flávia C. Delicato, Paulo F. Pires, Luiz Rust, Luci Pirmez, José Ferreira de Rezende
March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**
Publisher: ACM Press
Full text available: pdf(210.07 KB)   Additional Information: full citation, abstract, references, index terms

Wireless Sensor Networks (WSNs) are distributed systems whose main goal is to collect and deliver data to applications. This paper proposes a reflective, service-oriented

middleware for WSN. The middleware provides an abstraction layer between applications and the underlying network infrastructure and it also keeps the balance between application QoS requirements and the network lifetime. It monitors both network and application execution states, performing a network adaptation whenever it is ne ...

Keywords: adaptation, reflective middleware, wireless sensor networks

47 Embedded systems: applications, solutions and techniques (EMBS): Profiling and mapping of parallel workloads on network processors
Ning Weng, Tilman Wolf
March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**
Publisher: ACM Press
Full text available: pdf(373.17 KB)   Additional Information: full citation, abstract, references, index terms

Network processors are embedded system-on-a-chip multiprocessors that are optimized to perform simple packet processing tasks at data rates of several Gigabits per second. To meet the performance demands of increasing link speeds and more complex network applications, network processors are implemented with several dozens of processor cores and execute multiple packet processing applications in parallel. The complexity of such systems makes it increasingly difficult for application developers to ...

Keywords: application profiling, embedded systems, multiprocessor scheduling, network processors

48 Distributed systems and grid computing (DSGC): The recursive transpose-connected cycles (*RTCC*) interconnection network for multiprocessors
M. Hoseiny Farahabady, H. Sarbazi-Azad
March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**
Publisher: ACM Press
Full text available: pdf(332.91 KB)   Additional Information: full citation, abstract, references

In this paper, we propose a new modular topology for interconnection networks, the Recursive Transpose-Connected Cycles (*RTCC*). The *RTCC* has a recursive definition quite similar to that of fractal graphs having interesting topological characteristics, making it suitable for utilization as the base topology of large-scale multicomputer interconnection networks. We study important properties of this topology such as diameter, bisection width and issues related to implementation, such ...

Keywords: hamiltonian properties, implementation constraints, interconnection network, multicomputer, performance evaluation

49 Distributed systems and grid computing (DSGC): Policies translation for integrated management of grids and networks
Ricardo Neisse, Maria Janilce Bosquiroli Almeida, Lisandro Zambenedetti Granville, Liane Margarida Rockenbach Tarouco
March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**
Publisher: ACM Press
Full text available: pdf(220.70 KB)   Additional Information: full citation, abstract, references, index terms

Computing grids require the underlying network infrastructure to be properly configured in order to have appropriate communications among the grids' nodes. The management of networks and the management of grids are currently executed by different tools operated by different administrative personnel. Eventually, the grid communication requirements will need corresponding support from the network management tools, but such requirements are fulfilled only when grid administrators manually asks netw ...

Keywords: grid management, network management, policy-based management

50 Computer security (SEC): A ZKP-based identification scheme for base nodes in
wireless sensor networks
Dev Anshul, Suman Roy
March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**
Publisher: ACM Press
Full text available: pdf(164.30 KB) Additional Information: full citation, abstract, references, index terms

> Most of the published work on authentication mechanisms for wireless sensor networks
> establishes secure authentication for sensor nodes, but not for the base node that is in fact
> required to authenticate other nodes in the same network. This situation can lead to an
> attack whereby a malicious party masquerades as the base station and fraudulently
> authenticates other legitimate nodes to capture and/or inject messages within the
> network. The trust assumption in the existing literature with regard ...
>
> **Keywords:** base stations, entity authentication, guillou-quisquater protocol, security
> protocols, sensor and ad hoc networks, wireless security, zero-knowledge protocol

51 Agents, interactions, mobility, and systems (AIMS): Mobile agents for network
management: when and when not!
Huy Hoang To, Shonali Krishnaswamy, Bala Srinivasan
March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**
Publisher: ACM Press
Full text available: pdf(130.12 KB) Additional Information: full citation, abstract, references

> In order to fully realise the potential of mobile agent technology to address the needs of
> the network management domain, it is imperative to establish the conditions where mobile
> agent-based (MA) NMS or SNMP-based NMS should be employed to achieve the optimal
> performance in term of overhead traffic generated. This paper presents mathematical
> models to approximate the overhead traffic created by the MA-based NMS and SNMP-
> based NMS on the production network, based on the complexity of the managem ...
>
> **Keywords:** mobile agents, network management, performance optimisation

52 Ad-hoc networking and sensor networks: Configuring and managing a large-scale
monitoring network solving real world challenges for ultra low powered and long-
range wireless mesh networks
Laurent Maleysson, Christophe Dugas
October 2005 **Proceedings of the 2005 joint conference on Smart objects and ambient
intelligence: innovative context-aware services: usages and
technologies sOc-EUSAI '05**
Publisher: ACM Press
Full text available: pdf(164.57 KB) Additional Information: full citation, abstract, references

> In creating wireless networking solutions suitable for deployment in harsh, unpredictable,
> and widespread environments, we were confronted with a series of problems as-yet
> unsolved by commercially available technologies. The purpose of this article is to describe
> how we addressed mission-critical customer requirements by developing a wireless
> technology explicitly for devices in Ultra Low Power (ULP) and Long-Range wireless mesh
> networks. The key end-points in our target implementation are batte ...

53 Mires: a publish/subscribe middleware for sensor networks
Eduardo Souto, Germano Guimarães, Glauco Vasconcelos, Mardoqueu Vieira, Nelson Rosa,
Carlos Ferraz, Judith Kelner
December 2005 **Personal and Ubiquitous Computing,** Volume 10 Issue 1
Publisher: Springer-Verlag

Full text available: ⊞ pdf(353.80 KB)   Additional Information: full citation, abstract

A wireless sensor network (WSN) consists of a large number of small devices with computational power, wireless communication and sensing capability. These networks have been developed for a wide range of applications, such as habitat monitoring, object tracking, precision agriculture, building monitoring and military systems. Meanwhile, middleware systems have also been proposed in to facilitate both the development of these applications and provide common application services. The development o ...

Keywords: Middleware, Publish/subscribe systems, Wireless sensor networks

54 An algebraic theory of dynamic network routing   ▭

João Luís Sobrinho
October 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 5
Publisher: IEEE Press
Full text available: ⊞ pdf(497.01 KB)   Additional Information: full citation, abstract, references, index terms

We develop a non-classic algebraic theory for the purpose of investigating the convergence properties of dynamic routing protocols. The algebraic theory can be regarded as a generalization of shortest-path routing, where the new concept of free cycle generalizes that of a positive-length cycle. A primary result then states that routing protocols always converge, though not necessarily onto optimal paths, in networks where all cycles are free. Monotonicity and isotonicity are two algebraic proper ...

Keywords: algebra, convergence, inter-domain routing, intra-domain routing, routing protocols

55 A cost-benefit flow control for reliable multicast and unicast in overlay networks   ▭

Yair Amir, Baruch Awerbuch, Claudiu Danilov, Jonathan Stanton
October 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 5
Publisher: IEEE Press
Full text available: ⊞ pdf(651.18 KB)   Additional Information: full citation, abstract, references, index terms

When many parties share network resources on an overlay network, mechanisms must exist to allocate the resources and protect the network from overload. Compared to large physical networks such as the Internet, in overlay networks the dimensions of the task are smaller, so new and possibly more effective techniques can be used. In this work we take a fresh look at the problem of flow control in multisender multigroup reliable multicast and unicast and explore a cost-benefit approach that works in ...

Keywords: flow control, overlay networks, reliable multicast

56 Dynamics of usage-priced communication networks: the case of a single bottleneck   ▭
resource

Youngmi Jin, George Kesidis
October 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 5
Publisher: IEEE Press
Full text available: ⊞ pdf(510.38 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we study end-user dynamics of communication networks employing usage-based pricing. We propose a generic network access mechanism in which users modify their access control parameter based on the quality of service they receive in order to maximize their net benefit. For the examples of users sharing access to a bandwidth resource via a single trunk with Erlang loss dynamics and for a differentiated services (diffserv) network, we study the equilibrium/fixed points and give analyt ...

Keywords: Erlang blocking, Lyapunov function, Nash equilibria, differentiated services (diffserv), evolving TCP, internet, quality of service (QoS), stability, usage pricing

57 Price-based rate control in random access networks

Clement Yuen, Peter Marbach

October 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 5

Publisher: IEEE Press

Full text available: pdf(490.55 KB)   Additional Information: full citation, abstract, references, index terms

We study a price-based rate control mechanism for random access networks. The mechanism uses channel feedback information to control the aggregate packet arrival rate. For our analysis, we use the standard slotted Aloha model with an infinite set of nodes. We show that the resulting Markov chain is positive recurrent. In addition, we characterize the throughput and delay at the operating point of the system and show how the operating point can be set a priori by appropriately choosing the contro ...

Keywords: CSMA/CD, random access networks, rate control, slotted Aloha, wireless networks

58 Event-to-sink reliable transport in wireless sensor networks

Özgür B. Akan, Ian F. Akyildiz

October 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 5

Publisher: IEEE Press

Full text available: pdf(634.07 KB)   Additional Information: full citation, abstract, references, index terms

Wireless sensor networks (WSNs) are event-based systems that rely on the collective effort of several microsensor nodes. Reliable event detection at the sink is based on collective information provided by source nodes and not on any individual report. However, conventional end-to-end reliability definitions and solutions are inapplicable in the WSN regime and would only lead to a waste of scarce sensor resources. Hence, the WSN paradigm necessitates a collective event-to-sink reliability notion ...

Keywords: congestion control, energy conservation, event-to-sink reliability, reliable transport protocols, wireless sensor networks

59 Modeling and performance analysis for wireless mobile networks: a new analytical approach

Yuguang Fang

October 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 5

Publisher: IEEE Press

Full text available: pdf(392.79 KB)   Additional Information: full citation, abstract, references, index terms

In wireless mobile networks, quantities such as call blocking probability, call dropping probability, handoff probability, handoff rate, and the actual call holding times for both complete and incomplete calls are very important performance parameters in the network performance evaluation and design. In the past, their analytical computations are given only when the classical exponential assumptions for all involved time variables are imposed. In this paper, we relax the exponential assumptions ...

Keywords: PCS, call blocking probability, call dropping probability, handoff probability, handoff rate, mobile computing, wireless cellular networks

60 SHRiNK: a method for enabling scaleable performance prediction and efficient network simulation

Rong Pan, Balaji Prabhakar, Konstantinos Psounis, Damon Wischik

October 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 5

Publisher: IEEE Press

Full text available: 📄 pdf(1.66 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

As the Internet grows, it is becoming increasingly difficult to collect performance measurements, to monitor its state, and to perform simulations efficiently. This is because the size and the heterogeneity of the Internet makes it time-consuming and difficult to devise traffic models and analytic tools which would allow us to work with summary statistics.We explore a method to side step these problems by combining sampling, modeling, and simulation. Our hypothesis is this: if we take a sample o ...

Keywords: network downscaling, performance extrapolation, small-scale network replica, traffic sampling
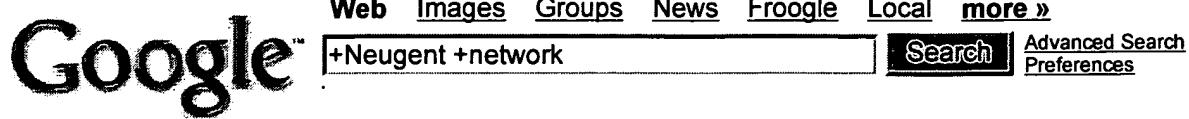
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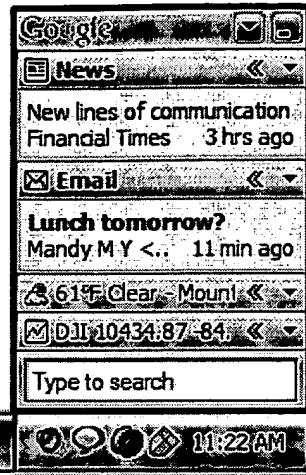### Is grid computing finally a reality? | The Register
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